

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A microreactor for producing hydrogen by reforming a feed material, comprising:

a joined body including a first substrate and a second substrate that are joined together;

a flow path formed by a microchannel portion formed on a joining surface of at least one of said first or second substrates; and

a catalyst carrying member disposed in said flow path and including a catalyst, said catalyst is supported independent of ~~direct support~~ of wall surfaces of said microchannel portion that define said flow path,

wherein the catalyst carrying member is wire shaped.

Claim 2 (Previously Presented): A microreactor according to claim 1, wherein said catalyst carrying member comprises a metal base body, a metal oxide film covering said metal base body, and said catalyst supported on said metal oxide film.

Claim 3 (Original): A microreactor according to claim 2, wherein said metal oxide film is formed by anodic oxidation of said metal base body.

Claim 4 (Original): A microreactor according to claim 2, wherein said metal oxide film is formed by a boehmite treatment.

Claim 5 (Previously Presented): A microreactor according to claim 1, wherein said joined body is provided with a heater at at least one of said first or second substrates.

Claim 6 (Original): A microreactor according to claim 5, wherein said heater is provided on said substrate via an insulating layer.

Claim 7 (Original): A microreactor according to claim 1, wherein said catalyst carrying member comprises an electric heater, a metal oxide film covering said electric heater, and a catalyst supported on said metal oxide film.

Claim 8 (Original): A microreactor according to claim 7, wherein said metal oxide film is formed by a boehmite treatment.

Claim 9 (Previously Presented): A microreactor according to claim 1, wherein said catalyst carrying member comprises an electric heater, a metal film covering said electric heater, a metal oxide film covering said metal film, and said catalyst supported on said metal oxide film.

Claim 10 (Original): A microreactor according to claim 9, wherein said metal oxide film is formed by anodic oxidation of said metal film.

Claim 11 (Original): A microreactor according to claim 9, wherein said metal oxide film is formed by a boehmite treatment.

Claims 12-29 (Canceled).

Claim 30 (Previously Presented): A microreactor according to claim 2, wherein said metal base body is circular in section.

Claim 31 (Currently Amended): ~~A microreactor according to claim 2,~~
A microreactor for producing hydrogen by reforming a feed material, comprising:
a joined body including a first substrate and a second substrate that are joined
together;
a flow path formed by a microchannel portion formed on a joining surface of at least
one of said first or second substrates;
a catalyst carrying member disposed in said flow path and including a catalyst, said
catalyst is supported independent of wall surfaces of said microchannel portion that define
said flow path;
wherein said catalyst carrying member comprises a metal base body, a metal oxide
film covering said metal base body, and said catalyst supported on said metal oxide film; and
wherein said metal body includes a wavelike plate shape in section.